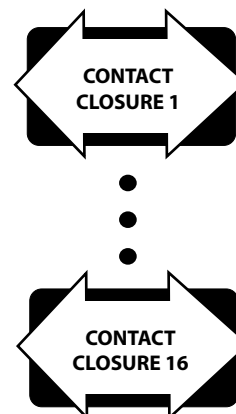


16 Channels of Bi-directional,
Contact Closure over One Fiber



FEATURES:

- Sixteen User-selectible, Contact Mapping (N.O., N.C)
- Laser Based Systems for Multimode and Single-mode Fiber
- Individually Programmed Contacts for Either Normally-Open or Normally-Closed
- *SpectraSmart™* Network Management Compatible
- Local LED Status Indicators to Monitor Critical System Diagnostics and Performance Parameters
- ST, FC Optical Connector
- Hot Swappable Rack Cards
- Wide Optical Dynamic Range: Optical Attenuators are Never Needed
- Back - Biased Photo Detector Circuitry for Stable Optical Laser Output Over Full Temperature Range
- Meets NEMA TS1 / TS2 & CALTRANS Specifications
- Utilizes Internal Switching Power Supplies
- Automatically Resettable Solid-State Current Limiters on All Power Lines: Provides Equipment Protection
- DB 15 Type Connectors for Contact Closure

DESCRIPTION:

The DXA/DXB-16C/16C-x series product incorporates a new digital encoding technology. This fiber optic system will transmit 16 Channels of Bi-directional Contact Closure signals over one Singlemode or Multimode fiber. The Contact Closure channels can be configured as either Normally Open (N.O.) or Normally Closed (N.C.). Meridian's digital product line incorporates plug-in personality circuit cards to easily configure a wide variety of data channels on this system. The functionality of the DXA/DXB-16C/16C-x series are further enhanced by their compatibility with Meridian's PC based SpectraSmart Network Management & Diagnostic Software system. SpectraSmart supervises the operating parameters of the transmission system such as the status on Digital carrier detect, voltages, temperatures, optical levels, Laser currents, Digital Power supply etc. See SpectraSmart brochure for further details.

CONFIGURATIONS:

The DigiFlex™ systems can be mounted as rack mount cards suitable for mounting in Meridian card chassis and utilizes 2 card slots. These products can easily be converted to a Standalone module with 2-slot Standalone Desk / Wall mounted chassis. See standalone chassis spec. for further details.

MARKETS:

- ✓ Security and surveillance
- ✓ Access control systems
- ✓ CCTV Networks
- ✓ IR Illuminations

SPECIFICATIONS:

Contact Closure

Formats	Normally Open (N.O.) or Normally Closed (N.C.) - jumper selectable
Rate	10 Hz.(Per Channel)
Contact Rating	0.3A, 30V AC / DC
Contact Bounce Time	5 ms

Power *

Card	8 Watts
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Connectors

Data	DB 15F
Optical	ST , FC
Power	See SR-1002 Data Sheet

Optical

Bandwidth	250 Mb/s.
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Environmental

Operating Temperature	-34°C to +74°C
Storage Temperature	-55°C to +85°C
Relative Humidity	0 to 95% Non-condensing

Indicators (LEDs)

1 - Green	Power On
1 - Bi-color	TX Carrier/ Laser Over Current
1 - Bi-color	RX Carrier - Present / Error
1 - Bi-color	RX optical signal - Present / Absent
1 - Green	C.C Present (One Per Channel)
1 - Bi-color (Optional)	Card Diagnostics

Physical

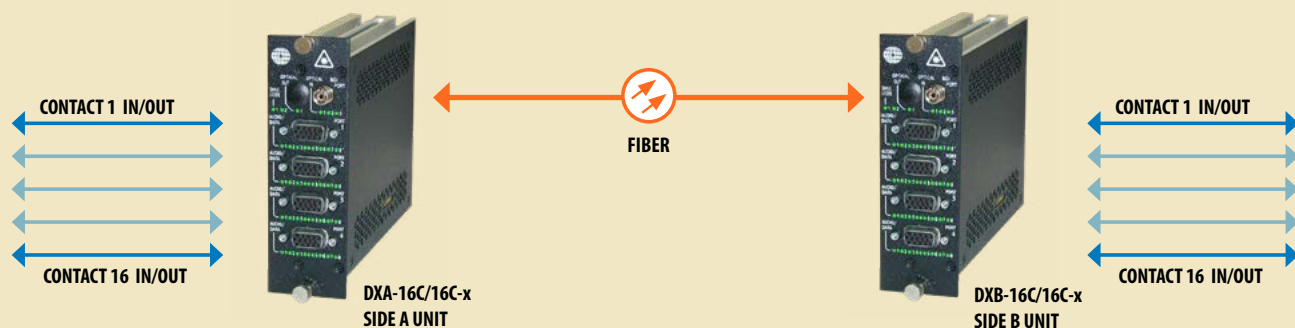
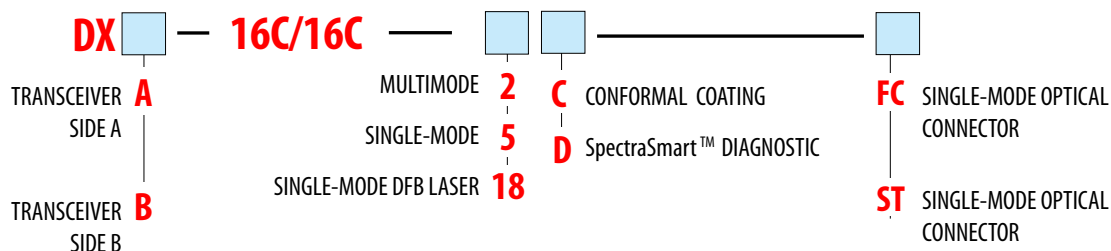
Dimensions (Card)	160 mm (6.3") L, 100 mm (4") H 44 mm (1.7") W
Weight (Card)	540 g (1.2 lb.)
No. of Slots	Two

Quality

MTBF	>200,000 hours, @ 35°C Ground Fix as per MIL 217F
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** Due to variations of drivers and diagnostic options,
power shown @ max value*

Part Numbers:



OPTICAL:

Meridian Optical Code	Fiber Type/Size (um)	Optical Output (dBm)	Receiver Sensitivity (dBm)	Optical Budget (dB)	Wavelength (nm)	Optical Connector	Optical Dynamic Range (dB)	Max Distance (Km)
2	Multimode (Laser) 62.5 / 125	-3	-24	21	1300 / 850	ST	24	4
5	Single-mode (FP Laser) 9 / 125	-3	-24	21	1310 / 1550	ST, FC	24	60
18	Singlemode (DFB Laser) 9 / 125	+3	-24	27	1310/1550	ST, FC	23	70

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